

REMARKS

The rejections and comments of the Examiner set forth in the Office Action dated June 4, 2003 have been carefully reviewed by the Applicants. Claims 2-8, 10-14, 16, 18, 30, and 31 are currently pending in the application.

Claims 1, 2, 6 and 7 are currently rejected under 35 U.S.C. 102(e) as being anticipated by Hshieh (US 6262543). In response, independent Claims 4, 11, 16, and 18 have been amended to patentably distinguish the present claimed invention from Hshieh. Specifically, Claims 4, 11, 16, and 18 have been amended to recite "a highly doped region of said first conductivity type in said drain region in contact with said bottom portion of said trench" that is neither taught nor suggested by Hshieh.

"A high conductivity region" has been replaced by "a highly doped region" to more clearly define the claimed structure. "adjacent to" has been replaced by "in contact with" to clearly distinguish the claimed structure from the structure of Hshieh, as Hshieh teaches a highly doped region that is not in contact with the bottom of the trench.

Dependent claims 2, 3, 5-8, 10, 12-14, 30, and 31 share the limitation of "a highly doped region of said first conductivity type in said drain region in contact with said bottom portion of said trench," and are thus patentably distinguished from Hshieh.


In summary, Applicants assert that Claims 2-8, 10-14, 16, 18, 30, and 31 are in condition for allowance and earnestly solicit such action by the Examiner.

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Respectfully submitted,

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Date: October 6, 2003


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Serial No.: 09/927,320